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4	5,418,948	Concept matching of natural language queries with a database of document concepts
5	5,265,065	Method and apparatus for information retrieval from a database by replacing domain specific stemmed phases in a natural language to create a search query

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1 Mini-buckets: A general scheme for bounded inference
Rina Dechter, Irina Rish
March 2003 **Journal of the ACM (JACM)**, Volume 50 Issue 2
Publisher: ACM Press
Full text available: pdf(902.27 KB) Additional Information: full citation, abstract, references, citings, index terms

This article presents a class of approximation algorithms that extend the idea of bounded-complexity inference, inspired by successful constraint propagation algorithms, to probabilistic inference and combinatorial optimization. The idea is to bound the dimensionality of dependencies created by inference algorithms. This yields a parameterized scheme, called *mini-buckets*, that offers adjustable trade-off between accuracy and efficiency. The mini-bucket approach to optimization problems, s ...

Keywords: Accuracy/complexity trade-off, Bayesian networks, approximation algorithms, combinatorial optimization, probabilistic inference.

2 Efficient reasoning
Russell Greiner, Christian Darken, N. Iwan Santoso
March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1
Publisher: ACM Press
Full text available: pdf(445.41 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Many tasks require "reasoning"—i.e., deriving conclusions from a corpus of explicitly stored information—to solve their range of problems. An ideal reasoning system would produce all-and-only the correct answers to every possible query, produce answers that are as specific as possible, be expressive enough to permit any possible fact to be stored and any possible query to be asked, and be (time) efficient
Keywords: efficiency trade-offs, soundness/completeness/expressibility

3 On linear potential functions for approximating Bayesian computations
Eugene Santos
May 1996 **Journal of the ACM (JACM)**, Volume 43 Issue 3
Publisher: ACM Press
Full text available: pdf(1.95 MB) Additional Information: full citation, abstract, references, index terms, review

Probabilistic reasoning suffers from NP-hard implementations. In particular, the amount of

probabilistic information necessary to the computations is often overwhelming. For example, the size of conditional probability tables in Bayesian networks has long been a limiting factor in the general use of these networks.We present a new approach for manipulating the probabilistic information given. This approach avoids being overwhelmed by essentially compressing the information using ...

Keywords: artificial intelligence, data compaction and compression, integer programming, least squares approximation, pattern recognition, probabilistic reasoning, uncertainty

4 Special issue on the fusion of domain knowledge with data for decision support: Combining knowledge from different sources in causal probabilistic models

Marek J. Druzdzel, Francisco J. Díez
December 2003 **The Journal of Machine Learning Research**, Volume 4
Publisher: MIT Press
Full text available: pdf(140.32 KB) Additional Information: full citation, abstract, references, index terms

Building probabilistic and decision-theoretic models requires a considerable knowledge engineering effort in which the most daunting task is obtaining the numerical parameters. Authors of Bayesian networks usually combine various sources of information, such as textbooks, statistical reports, databases, and expert judgement. In this paper, we demonstrate the risks of such a combination, even when this knowledge encompasses such seemingly population-independent characteristics as sensitivity and ...

5 Perspectives on database theory

Mihalis Yannakakis
September 1996 **ACM SIGACT News**, Volume 27 Issue 3
Publisher: ACM Press
Full text available: pdf(2.13 MB) Additional Information: full citation, index terms

6 Data mining (DM): DrC4.5: Improving C4.5 by means of prior knowledge

Miriam Baglioni, Barbara Furletti, Franco Turini
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(606.15 KB) Additional Information: full citation, abstract, references

Classification is one of the most useful techniques for extracting meaningful knowledge from databases. Classifiers, e.g. decision trees, are usually extracted from a table of records, each of which represents an example. However, quite often in real applications there is other knowledge, e.g. owned by experts of the field, that can be usefully used in conjunction with the one hidden inside the examples. As a concrete example of this kind of knowledge we consider causal dependencies among the at ...

7 Learning bias and phonological-rule induction

Daniel Gildea, Daniel Jurafsky
December 1996 **Computational Linguistics**, Volume 22 Issue 4
Publisher: MIT Press
Full text available: pdf(2.25 MB) Publisher Site Additional Information: full citation, abstract, references, citings

A fundamental debate in the machine learning of language has been the role of prior knowledge in the learning process. Purely nativist approaches, such as the Principles and Parameters model, build parameterized linguistic generalizations directly into the learning system. Purely empirical approaches use a general, domain-independent learning rule (Error Back-Propagation, Instance-based Generalization, Minimum Description Length) to learn linguistic generalizations directly from the data.In this ...

8 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70
Publisher: ACM Press
Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

9 Towards a noise-tolerant, representation-independent mechanism for argument interpretation

Ingrid Zukerman, Sarah George
August 2002 **Proceedings of the 19th international conference on Computational linguistics - Volume 1**
Publisher: Association for Computational Linguistics
Full text available: pdf(365.40 KB) Additional Information: full citation, abstract, references

We describe a mechanism for the interpretation of arguments, which can cope with noisy conditions in terms of wording, beliefs and argument structure. This is achieved through the application of the Minimum Message Length Principle to evaluate candidate interpretations. Our system receives as input a quasi-Natural Language argument, where propositions are presented in English, and generates an interpretation of the argument in the form of a Bayesian network (BN). Performance was evaluated by dis ...

10 Coherent belief revision in games

Debra J. Holt
March 1994 **Proceedings of the 5th conference on Theoretical aspects of reasoning about knowledge**
Publisher: Morgan Kaufmann Publishers Inc.
Full text available: pdf(695.28 KB) Additional Information: full citation, abstract, references

What predictions about behavior in extensive form games can we rigorously justify as implied by rationality or mutual or common knowledge of that rationality?

11 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(17.07 MB) Additional Information: full citation, abstract

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

12 A survey of Web metrics

Devanshu Dhyani, Wee Keong Ng, Sourav S. Bhowmick
December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4
Publisher: ACM Press
Full text available: pdf(289.28 KB) Additional Information: full citation, abstract, references, citings, index terms

The unabated growth and increasing significance of the World Wide Web has resulted in a flurry of research activity to improve its capacity for serving information more effectively. But at the heart of these efforts lie implicit assumptions about "quality" and "usefulness" of Web resources and services. This observation points towards measurements and models that quantify various attributes of web sites. The science of measuring all aspects of information, especially its storage and retrieval or ...

Keywords: Information theoretic, PageRank, Web graph, Web metrics, Web page similarity, quality metrics

13 Selected IR-Related Dissertation Abstracts

February 1992 **ACM SIGIR Forum**, Volume 26 Issue 1
Publisher: ACM Press
Full text available: pdf(2.24 MB) Additional Information: full citation

14 Selected IR-Related Dissertation Abstracts

March 1993 **ACM SIGIR Forum**, Volume 27 Issue 1
Publisher: ACM Press
Full text available: pdf(2.24 MB) Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, and abstract. Unless otherwise specified, paper or microform copies of dissertations may be ordered from University Microfilms Inter ...

15 Three-dimensional object recognition

Paul J. Besl, Ramesh C. Jain
March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1
Publisher: ACM Press
Full text available: pdf(7.76 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A general-purpose computer vision system must be capable of recognizing three-dimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this problem, and reviews the relevant literature. Because range images (or depth maps) are often used as sensor input instead of intensity images, techniques for obtaining, processing, and characterizing range data are also surveyed.

16 A multistrategy approach to improving pronunciation by analogy

Yannick Marchand, Robert I. Damper
June 2000 **Computational Linguistics**, Volume 26 Issue 2
Publisher: MIT Press
Full text available: pdf(1.59 MB) Additional Information: full citation, abstract, references
Publisher Site

Pronunciation by analogy (PbA) is a data-driven method for relating letters to sound, with potential application to next-generation text-to-speech systems. This paper extends previous work on PbA in several directions. First, we have included "full" pattern matching between input letter string and dictionary entries, as well as including lexical stress in letter-to-phoneme conversion. Second, we have extended the method to phoneme-to-letter conversion. Third, and most important, we have experime ...

17 Mixtures of deterministic-probabilistic networks and their AND/OR search space

Rina Dechter, Robert Mateescu
July 2004 **Proceedings of the 20th conference on Uncertainty in artificial intelligence AUAI '04**
Publisher: AUAI Press
Full text available: pdf(396.84 KB) Additional Information: full citation, abstract, references

The paper introduces mixed networks, a new framework for expressing and reasoning with probabilistic and deterministic information. The framework combines belief networks with constraint networks, defining the semantics and graphical representation. We also introduce the AND/OR search space for graphical models, and develop a new linear space search algorithm. This provides the basis for understanding the benefits of processing the constraint information separately, resulting i ...

18 On finding minimal *w*-cutset
Bozhena Bidyuk, Rina Dechter
July 2004 **Proceedings of the 20th conference on Uncertainty in artificial intelligence AUAI '04**
Publisher: AUAI Press
Full text available: pdf(349.41 KB) Additional Information: full citation, abstract, references

The complexity of a reasoning task over a graphical model is tied to the induced width of the underlying graph. It is well-known that the conditioning (assigning values) on a subset of variables yields a subproblem of the reduced complexity where instantiated variables are removed. If the assigned variables constitute a cycle-cutset, the rest of the network is singly-connected and therefore can be solved by linear propagation algorithms. A w-cutset is a generalization of a cycl ...

19 Preformance Evaluation: Characterizing the interaction between routing and MAC protocols in ad-hoc networks
Chris Barrett, Achla Marathe, Madhav V. Marathe, Martin Drozda
June 2002 **Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing**
Publisher: ACM Press
Full text available: pdf(203.44 KB) Additional Information: full citation, abstract, references, citings, index terms

We empirically study the effect of mobility and interaction between various input parameters on the performance of protocols designed for wireless ad-hoc networks. An important objective is to study the interaction of the routing and MAC layer protocols under different mobility parameters. We use three basic mobility models: grid mobility model, random waypoint model, and exponential correlated random model. The performance of protocols is measured in terms of various quality of service measures ...

Keywords: ad hoc networks, performance analysis, statistical analysis

20 Large-Sample Learning of Bayesian Networks is NP-Hard
David Maxwell Chickering, David Heckerman, Christopher Meek
December 2004 **The Journal of Machine Learning Research**, Volume 5
Publisher: MIT Press
Full text available: pdf(467.11 KB) Additional Information: full citation, abstract

In this paper, we provide new complexity results for algorithms that learn discrete-variable Bayesian networks from data. Our results apply whenever the learning algorithm uses a scoring criterion that favors the simplest structure for which the model is able to represent the generative distribution exactly. Our results therefore hold whenever the learning algorithm uses a consistent scoring criterion and is applied to a sufficiently large dataset. We show that identifying high-scoring structure ...

Terms used
Bayesian and **order** and **arc** and **node** and **implication**

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Best 200 shown Relevance scale

21 GERTIS: a Dempster-Shafer approach to diagnosing hierarchical hypotheses
John Yen
May 1989 **Communications of the ACM**, Volume 32 Issue 5
Publisher: ACM Press
Full text available: pdf(1.40 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Gertis—a prototype expert system—not only demonstrates the feasibility of applying the Dempster-Shafer-based reasoning model to diagnosing hierarchically related hypotheses, but also suggests ways to generate better explanations by using knowledge about the structure of the hypothesis space and knowledge about the intended effects of the rules.

22 Metaheuristics in combinatorial optimization: Overview and conceptual comparison
Christian Blum, Andrea Roli
September 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 3
Publisher: ACM Press
Full text available: pdf(431.84 KB) Additional Information: full citation, abstract, references, index terms

The field of metaheuristics for the application to combinatorial optimization problems is a rapidly growing field of research. This is due to the importance of combinatorial optimization problems for the scientific as well as the industrial world. We give a survey of the nowadays most important metaheuristics from a conceptual point of view. We outline the different components and concepts that are used in the different metaheuristics in order to analyze their similarities and differences. Two v ...

Keywords: Metaheuristics, combinatorial optimization, diversification., intensification

23 Multiresolution stochastic hybrid shape models with fractal priors
B. C. Vemuri, A. Radisavljevic
April 1994 **ACM Transactions on Graphics (TOG)**, Volume 13 Issue 2
Publisher: ACM Press
Full text available: pdf(3.33 MB) Additional Information: full citation, abstract, references, citings, index terms, review

3D shape modeling has received enormous attention in computer graphics and computer vision over the past decade. Several shape modeling techniques have been proposed in literature, some are local (distributed parameter) while others are global (lumped parameter) in terms of the parameters required to describe the shape. Hybrid models that combine both ends of this parameter spectrum have been in vogue only recently. However, they do not allow a smooth transition between the two extremes of ...

Keywords: Bayesian estimation, deformable surfaces, fractal surfaces, multiresolution representation, orthonormal wavelet basis, stiffness matrix, superquadrics, surface fitting

24 Preference elicitation in combinatorial auctions

Wolfram Conen, Tuomas Sandholm
October 2001 **Proceedings of the 3rd ACM conference on Electronic Commerce**
Publisher: ACM Press

Full text available: pdf(137.49 KB) Additional Information: full citation, abstract, references, citings, index terms

Combinatorial auctions (CAs) where bidders can bid on bundles of items can be very desirable market mechanisms when the items sold exhibit complementarity and/or substitutability, so the bidder's valuations for bundles are not additive. However, in a basic CA, the bidders may need to bid on exponentially many bundles, leading to difficulties in determining those valuations, undesirable information revelation, and unnecessary communication. In this paper we present a design of an auctioneer agent ...

25 From promoter sequence to expression: a probabilistic framework

Eran Segal, Yoseph Barash, Itamar Simon, Nir Friedman, Daphne Koller
April 2002 **Proceedings of the sixth annual international conference on Computational biology**
Publisher: ACM Press

Full text available: pdf(3.22 MB) Additional Information: full citation, abstract, citings, index terms

We present a probabilistic framework that models the process by which transcriptional binding explains the mRNA expression of different genes. Our joint probabilistic model unifies the two key components of this process: the prediction of gene regulation events from sequence motifs in the gene's promoter region, and the prediction of mRNA expression from combinations of gene regulation events in different settings. Our approach has several advantages. By learning promoter sequence motifs that ar ...

26 Intelligent tutoring: Building and evaluating an intelligent pedagogical agent to improve the effectiveness of an educational game

Cristina Conati, Xiaohong Zhao
January 2004 **Proceedings of the 9th international conference on Intelligent user interface**
Publisher: ACM Press

Full text available: pdf(609.11 KB) Additional Information: full citation, abstract, references, index terms

Electronic educational games can be highly entertaining, but studies have shown that they do not always trigger learning. To enhance the effectiveness of educational games, we propose intelligent pedagogical agents that can provide individualized instruction integrated with the entertaining nature of the games. In this paper, we describe one such agent, that we have developed for Prime Climb, an educational game on number factorization. The Prime Climb agent relies on a probabilistic student mod ...

Keywords: dynamic Bayesian networks, educational games, intelligent agents, user modeling

27 Conference abstracts

January 1977 **Proceedings of the 5th annual ACM computer science conference**
Publisher: ACM Press

Full text available: pdf(3.14 MB) Additional Information: full citation, abstract, index terms

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new

errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

28 Stochastic processes as concurrent constraint programs

Vineet Gupta, Radha Jagadeesan, Prakash Panangaden

January 1999 **Proceedings of the 26th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Publisher: ACM Press

Full text available: pdf(2.12 MB) Additional Information: full citation, references, citings, index terms

29 Technical correspondence

CORPORATE Tech Correspondence

November 1985 **Communications of the ACM**, Volume 28 Issue 11

Publisher: ACM Press

Full text available: pdf(1.03 MB) Additional Information: full citation, references, citings, index terms

30 Model Averaging for Prediction with Discrete Bayesian Networks

Denver Dash, Gregory F. Cooper

December 2004 **The Journal of Machine Learning Research**, Volume 5

Publisher: MIT Press

Full text available: pdf(267.17 KB) Additional Information: full citation, abstract

In this paper we consider the problem of performing Bayesian model-averaging over a class of discrete Bayesian network structures consistent with a partial ordering and with bounded in-degree *k*. We show that for *N* nodes this class contains in the worst-case at least <img align=middle src=dash04a-omega.jpeg alt="omega eq"> distinct network structures, and yet model averaging over these structures can be performed using <img align=middle src=dash04a-bigo.jpeg alt="bigo eq"&g ...

31 Polynomial-time implication problems for unary inclusion dependencies

Stavros S. Cosmadakis, Paris C. Kanellakis, Moshe Y. Vardi

January 1990 **Journal of the ACM (JACM)**, Volume 37 Issue 1

Publisher: ACM Press

Full text available: pdf(2.74 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Unary inclusion dependencies are database constraints expressing subset relationships. The decidability of implication for these dependencies together with embedded implicational dependencies, such as functional dependencies, are investigated. As shown by Casanova et al., the unrestricted and finite implication problems are different for the class of functional and unary inclusion dependencies; also, for this class and for any fixed k, finite implication has no k

32 Inference propagation in emitter, system hierarchies

T Sudkamp

December 1986 **Proceedings of the ACM SIGART international symposium on Methodologies for intelligent systems**

Publisher: ACM Press

Full text available: pdf(619.15 KB) Additional Information: full citation, abstract, references, index terms

Emitter and system hierarchies are represented by inference nets and propositional relationships. Emitters are the primitive objects of the domain and systems consist of relationships among emitters. Evidence gathered concerning the identification of emitters must be used to classify both emitters and systems. Evidential reasoning and inference nets are used to to combine information at each level. Methods of direct and indirect transfer of evidence between levels are presented.

33 Book review: Probabilistic Similarity Networks By David E. Heckerman (The MIT Press, 1991)

Stephen E. Roehrig
August 1992 **ACM SIGART Bulletin**, Volume 3 Issue 3
Publisher: ACM Press
Full text available: pdf(304.58 KB) Additional Information: full citation, abstract

This is a book about *normative* expert systems, that is, systems which treat uncertainty using the normative framework of probability theory. The gauntlet of probabilistic reasoning in expert systems was thrown down by the developers of MYCIN when they originated certainty factors. It has been picked up by quite a few, and serious battles have been joined. Now one of the owners of the glove has admitted a success by a probabilist.

34 A robust selection system using real-time multi-modal user-agent interactions

Katsumi Tanaka
December 1998 **Proceedings of the 4th international conference on Intelligent user interfaces**
Publisher: ACM Press
Full text available: pdf(837.90 KB) Additional Information: full citation, references, citings, index terms

Keywords: agent model, gaze, multi-modal interface, real-time interaction, speech, uncertainty

35 The use of phrases and structured queries in information retrieval

W. Bruce Croft, Howard R. Turtle, David D. Lewis
September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: pdf(1.35 MB) Additional Information: full citation, references, citings, index terms

36 Equational theories and database constraints

S S Cosmadakis, P C Kanellakis
December 1985 **Proceedings of the seventeenth annual ACM symposium on Theory of computing**
Publisher: ACM Press
Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, references, citings, index terms

We present a novel way to formulate database dependencies as sentences of first-order logic, using equational statements instead of Horn clauses. Dependency implication is directly reduced to equational implication. Our approach is powerful enough to express functional and inclusion dependencies, which are the most common database constraints. We present a new proof procedure for these dependencies. We use our equational formulation to derive new upper and lower bounds for the complexity of ...

37 Routing: Implications of autonomy for the expressiveness of policy routing

Nick Feamster, Ramesh Johari, Hari Balakrishnan
August 2005 **Proceedings of the 2005 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '05**
Publisher: ACM Press
Full text available: pdf(325.25 KB) Additional Information: full citation, abstract, references, index terms

Thousands of competing autonomous systems must cooperate with each other to provide global Internet connectivity. Each autonomous system (AS) encodes various economic, business, and performance decisions in its routing policy. The current interdomain routing system enables each AS to express policy using *rankings* that determine how each router

inthe AS chooses among different routes to a destination, and *filters* that determine which routes are hidden from each neighboring AS. Becau ...

Keywords: BGP, autonomy, internet, policy, protocol, routing, safety, stability

38 Existential second-order logic over graphs: Charting the tractability frontier

Georg Gottlob, Phokion G. Kolaitis, Thomas Schwentick
March 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 2
Publisher: ACM Press
Full text available: pdf(409.27 KB) Additional Information: full citation, abstract, references, index terms

Fagin's theorem, the first important result of descriptive complexity, asserts that a property of graphs is in NP if and only if it is definable by an existential second-order formula. In this article, we study the complexity of evaluating existential second-order formulas that belong to *prefix classses* of existential second-order logic, where a prefix class is the collection of all existential second-order formulas in prenex normal form such that the second-order and the first-order quan ...

Keywords: Existential second-order logic, NP-complete problems, finite model theory, graph coloring, graph constraints, prefix classes

39 A SAT-based implication engine for efficient ATPG, equivalence checking, and optimization of netlists

Paul Tafertshofer, Andreas Ganz, Manfred Henftling
November 1997 **Proceedings of the 1997 IEEE/ACM international conference on Computer-aided design**
Publisher: IEEE Computer Society
Full text available: pdf(138.46 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

The paper presents a flexible and efficient approach to evaluating implications as well as deriving indirect implications in logic circuits. Evaluation and derivation of implications are essential in ATPG, equivalence checking, and netlist optimization. Contrary to other methods, the approach is based on a graph model of a circuit's clause description called implication graph. It combines both the flexibility of SAT-based techniques and high efficiency of structure based methods. As the proposed ...

Keywords: SAT-based implication engine, automatic testing, circuit clause description, efficient ATPG, equivalence checking, graph algorithms, graph model, implication evaluation, implication graph, indirect implications, logic circuits, netlist optimization, structure based methods

40 Research track posters: Privacy-preserving Bayesian network structure computation on distributed heterogeneous data

Rebecca Wright, Zhiqiang Yang
August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**
Publisher: ACM Press
Full text available: pdf(217.22 KB) Additional Information: full citation, abstract, references, index terms

As more and more activities are carried out using computers and computer networks, the amount of potentially sensitive data stored by business, governments, and other parties increases. Different parties may wish to benefit from cooperative use of their data, but privacy regulations and other privacy concerns may prevent the parties from sharing their data. Privacy-preserving data mining provides a solution by creating distributed data mining algorithms in which the underlying data is not reveal ...

Keywords: Bayesian network, distributed databases, privacy-preserving data mining

Terms used
Bayesian and **order** and **arc** and **node** and **implication**

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Best 200 shown Relevance scale

41 On the Equivalence of Database Models
Y. Edmund Lien
April 1982 **Journal of the ACM (JACM)**, Volume 29 Issue 2
Publisher: ACM Press
Full text available: pdf(1.68 MB) Additional Information: full citation, references, citings, index terms

42 Efficient tests for top-down termination of logical rules
Jeffrey D. Ullman, Allen Van Gelder
April 1988 **Journal of the ACM (JACM)**, Volume 35 Issue 2
Publisher: ACM Press
Full text available: pdf(2.32 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Considered is the question of whether top-down (Prolog-like) evaluation of a set of logical rules can be guaranteed to terminate. The NAIL! system is designed to process programs consisting of logical rules and to select, for each fragment of the program, the best from among many possible strategies for its evaluation. In the context of such a system, it is essential that termination tests be fast. Thus, the "uniqueness" property of logical rules is introduced. This property is ...

43 Multiobjective A*
Bradley S. Stewart, Chelsea C. White
October 1991 **Journal of the ACM (JACM)**, Volume 38 Issue 4
Publisher: ACM Press
Full text available: pdf(2.15 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: A* multiobjective decision making

44 A differential approach to inference in Bayesian networks
Adnan Darwiche
May 2003 **Journal of the ACM (JACM)**, Volume 50 Issue 3
Publisher: ACM Press
Full text available: pdf(237.97 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a new approach to inference in Bayesian networks, which is based on representing the network using a polynomial and then retrieving answers to probabilistic queries by evaluating and differentiating the polynomial. The network polynomial itself is exponential in size, but we show how it can be computed efficiently using an arithmetic circuit that can be evaluated and differentiated in time and space linear in the circuit size. The proposed framework for inference subsumes one of the m ...

Keywords: Bayesian networks, Probabilistic reasoning, circuit complexity, compiling probabilistic models

45 Exponential families for conditional random fields

Yasemin Altun, Alex J. Smola, Thomas Hofmann

July 2004 **Proceedings of the 20th conference on Uncertainty in artificial intelligence AUAI '04**

Publisher: AUAI Press

Full text available: pdf(422.66 KB) Additional Information: full citation, abstract, references

In this paper we define conditional random fields in reproducing kernel Hilbert spaces and show connections to Gaussian Process classification. More specifically, we prove decomposition results for undirected graphical models and we give constructions for kernels. Finally we present efficient means of solving the optimization problem using reduced rank decompositions and we show how stationarity can be exploited efficiently in the optimization process.

46 Using Bayesian networks to analyze expression data

Nir Friedman, Michal Linial, Iftach Nachman, Dana Pe'er

April 2000 **Proceedings of the fourth annual international conference on Computational molecular biology**

Publisher: ACM Press

Full text available: pdf(952.91 KB) Additional Information: full citation, abstract, references, citings

DNA hybridization arrays simultaneously measure the expression level for thousands of genes. These measurements provide a "snapshot" of transcription levels within the cell. A major challenge in computational biology is to uncover, from such measurements, gene/protein interactions and key biological features of cellular systems.

In this paper, we propose a new framework for discovering interactions between genes based on multiple expression measurements This framework buil ...

47 Computing with features as formulae

Mark Johnson

March 1994 **Computational Linguistics**, Volume 20 Issue 1

Publisher: MIT Press

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references
Publisher Site

This paper extends the approach to feature structures developed in Johnson (1991a), which uses Schönfinkel-Bernays' formulae to express feature structure constraints. These are shown to be a disjunctive generalization of Datalog clauses, as used in database theory. This paper provides a fixed-point characterization of the minimal models of these formulae that serves as the theoretical foundation of a forward-chaining algorithm for determining their satisfiability. This algorithm, which gene ...

48 On inclusion-driven learning of bayesian networks

Robert Castelo, Tomáas Kocka

December 2003 **The Journal of Machine Learning Research**, Volume 4

Publisher: MIT Press
Full text available: pdf(980.59 KB) Additional Information: full citation, abstract, references, index terms

Two or more Bayesian network structures are Markov equivalent when the corresponding acyclic digraphs encode the same set of conditional independencies. Therefore, the search space of Bayesian network structures may be organized in equivalence classes, where each of them represents a different set of conditional independencies. The collection of sets of conditional independencies obeys a partial order, the so-called "inclusion order." This paper discusses in depth the role that the inclusion ord ...

49 Transitive closure algorithms based on graph traversal
Yannis Ioannidis, Raghu Ramakrishnan, Linda Winger
September 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 3
Publisher: ACM Press
Full text available: pdf(4.34 MB) Additional Information: full citation, abstract, references, citings, index terms

Several graph-based algorithms have been proposed in the literature to compute the transitive closure of a directed graph. We develop two new algorithms (Basic_TC and Gobal_DFTC) and compare the performance of their implementations in a disk-based environment with a well-known graph-based algorithm proposed by Schmitz. Our algorithms use depth-first search to traverse a graph and a technique called marking to avoid processing some of the arcs in the graph. They compute the ...

Keywords: depth-first search, node reachability, path computations, transitive closure

50 Discourse & pragmatics: A Bayesian approach for user modeling in dialogue systems
Tomoyosi Akiba, Hozumi Tanaka
August 1994 **Proceedings of the 15th conference on Computational linguistics - Volume 2**
Publisher: Association for Computational Linguistics
Full text available: pdf(509.83 KB) Additional Information: full citation, abstract, references

User modeling is an important components of dialog systems. Most previous approaches are rule-based methods. In this paper, we propose to represent user models through Bayesian networks. Some advantages of the Bayesian approach over the rule-based approach are as follows. First, rules for updating user models are not necessary because updating is directly performed by the evaluation of the network based on probability theory; this provides us a more formal way of dealing with uncertainties. Seco ...

51 Expressing and optimizing sequence queries in database systems
Reza Sadri, Carlo Zaniolo, Amir Zarkesh, Jafar Adibi
June 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 2
Publisher: ACM Press
Full text available: pdf(427.23 KB) Additional Information: full citation, abstract, references, index terms

The need to search for complex and recurring patterns in database sequences is shared by many applications. In this paper, we investigate the design and optimization of a query language capable of expressing and supporting efficiently the search for complex sequential patterns in database systems. Thus, we first introduce SQL-TS, an extension of SQL to express these patterns, and then we study how to optimize the queries for this language. We take the optimal text search algorithm of Knuth, Morr ...

Keywords: Time series, query optimization, searching, sequences

52 Advances in dataflow programming languages
Wesley M. Johnston, J. R. Paul Hanna, Richard J. Millar
March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1

Publisher: ACM Press
Full text available: pdf(835.52 KB) Additional Information: full citation, abstract, references, index terms

Many developments have taken place within dataflow programming languages in the past decade. In particular, there has been a great deal of activity and advancement in the field of dataflow visual programming languages. The motivation for this article is to review the content of these recent developments and how they came about. It is supported by an initial review of dataflow programming in the 1970s and 1980s that led to current topics of research. It then discusses how dataflow programming evo ...

Keywords: Dataflow, co-ordination languages, component software, data flow visual programming, graphical programming, multithreading, software engineering

53 Dissolution: making paths vanish

Neil V. Murray, Erik Rosenthal
July 1993 **Journal of the ACM (JACM)**, Volume 40 Issue 3
Publisher: ACM Press
Full text available: pdf(1.98 MB) Additional Information: full citation, references, citings, index terms

Keywords: Prawitz analysis, automated deduction, inference, matrix methods

54 On virtual memories and micronetworks

G. Jack Lipovski
March 1977 **ACM SIGARCH Computer Architecture News , Proceedings of the 4th annual symposium on Computer architecture ISCA '77**, Volume 5 Issue 7
Publisher: ACM Press
Full text available: pdf(891.29 KB) Additional Information: full citation, abstract, references, index terms

We propose to use the microcomputer in a network to share I/O resources such as printers and archival memories. A model of a network is developed where computers correspond to edges of a graph. This model reflects the desired characteristics of the microcomputer organization. The advantage of virtual memory in these microcomputers is discussed. Herein, pages in the virtual memory are packets in the network. Packets and requests for packets are generated by page faults and packets are stored ...

55 Tutorial: Compiling concurrent languages for sequential processors

Stephen A. Edwards
April 2003 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 8 Issue 2
Publisher: ACM Press
Full text available: pdf(771.65 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Embedded systems often include a traditional processor capable of executing sequential code, but both control and data-dominated tasks are often more naturally expressed using one of the many domain-specific concurrent specification languages. This article surveys a variety of techniques for translating these concurrent specifications into sequential code. The techniques address compiling a wide variety of languages, ranging from dataflow to Petri nets. Each uses a different method, to some degr ...

Keywords: Compilation, Esterel, Lustre, Petri nets, Verilog, code generation, communication, concurrency, dataflow, discrete-event, partial evaluation, sequential

56 A compression technique to materialize transitive closure

H. V. Jagadish
December 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(3.25 MB) Additional Information: full citation, abstract, references, citings, index terms, review

An important feature of database support for expert systems is the ability of the database to answer queries regarding the existence of a path from one node to another in the directed graph underlying some database relation. Given just the database relation, answering such a query is time-consuming, but given the transitive closure of the database relation a table look-up suffices. We present an indexing scheme that permits the storage of the pre-computed transitive closure of a database re ...

57 Computing graphical queries over XML data

Sara Comai, Ernesto Damiani, Piero Fraternali

October 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 4

Publisher: ACM Press

Full text available: pdf(707.80 KB) Additional Information: full citation, abstract, references, citings, index terms

The rapid evolution of XML from a mere data exchange format to a universal syntax for encoding domain-specific information raises the need for new query languages specifically conceived to address the characteristics of XML. Such languages should be able not only to extract information from XML documents, but also to apply powerful transformation and restructuring operators, based on a well-defined semantics. Moreover, XML queries should be natural to write and understand, as nontechnical person ...

Keywords: Document restructuring, graphical query languages, semantics

58 Bayesian biosurveillance of disease outbreaks

Gregory F. Cooper, Denver H. Dash, John D. Levander, Weng-Keen Wong, William R. Hogan, Michael M. Wagner

July 2004 **Proceedings of the 20th conference on Uncertainty in artificial intelligence AUAI '04**

Publisher: AUAI Press

Full text available: pdf(970.41 KB) Additional Information: full citation, abstract, references

Early, reliable detection of disease outbreaks is a critical problem today. This paper reports an investigation of the use of causal Bayesian networks to model spatio-temporal patterns of a non-contagious disease (respiratory anthrax infection) in a population of people. The number of parameters in such a network can become enormous, if not carefully managed. Also, inference needs to be performed in real time as population data stream in. We describe techniques we have applied to address both ...

59 Special issue on ICML: The representational power of discrete bayesian networks

Charles X. Ling, Huajie Zhang

March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available: pdf(97.81 KB) Additional Information: full citation, abstract, index terms

One of the most important fundamental properties of Bayesian networks is the representational power, reflecting what kind of functions they can or cannot represent. In this paper, we establish an association between the structural complexity of Bayesian networks and their representational power. We use the maximum number of nodes' parents as the measure for the structural complexity of Bayesian networks, and the maximum XOR contained in a target function as the measure for the function complexit ...

60 Dependency networks for inference, collaborative filtering, and data visualization

David Heckerman, David Maxwell Chickering, Christopher Meek, Robert Rounthwaite, Carl Kadie

September 2001 **The Journal of Machine Learning Research**, Volume 1

Publisher: MIT Press

Full text available: pdf(337.07 KB) Additional Information: full citation, abstract, citings

We describe a graphical model for probabilistic relationships--an alternative to the Bayesian network--called a dependency network. The graph of a dependency network, unlike a Bayesian network, is potentially cyclic. The probability component of a dependency network, like a Bayesian network, is a set of conditional distributions, one for each node given its parents. We identify several basic properties of this representation and describe a computationally efficient procedure for learning the gra ...

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